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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,017	08/21/2001	Toru Murata	Q65899	6073

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SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 pennsylvania Avenue, N.W.  
Washington, DC 20037

EXAMINER
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BRIER, JEFFERY A

ART UNIT	PAPER NUMBER
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2672

DATE MAILED: 10/07/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/933,017

Applicant(s)

MURATA, TORU

Examiner

Jeffery A. Brier

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Response to Amendment***

1. The amendment filed on 09/05/03 has been entered.

***Response to Arguments***

2. Applicant's arguments filed 09/05/03 concerning the 102b rejection have been fully considered but they are not persuasive. Applicant contends the RS-232C interface is single ended allowing only communication to occur between two specific devices and will not allow multiple devices to communicate with any other device or devices connected to the network. This argument is not persuasive for at least three reasons: 1) Applicants specification does not describe the host PC communicating with more than one projector; 2) Applicants specification selects from a list of addresses at the projector to connect the one projector to one PC; and 3) The RS-232C network connects to many devices by the daisy chain method allowing one device to communicate with a device or devices, see the attached Sharp press release dated June 15, 2000 titled Sharp Redefines the High-end Conference Room LCD Projector and found at [http://www.projectorcentral.com/news\\_story\\_197.htm](http://www.projectorcentral.com/news_story_197.htm) , which describes in the section titled Remote Access and Control Software a PC controlling an entire group of projectors by connecting to one projector in the daisy chain of projectors.

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### Remote Access and Control Software

The XG-V10WU comes with the Professional Edition of the Sharp Advanced Presentation Software, which allows the projector or group of projectors to be connected to a PC for remote diagnostics, control and stacking/video wall capability.

With this software, the XG-V10WU has the ability to self-diagnose and locate/detect any system errors that may occur. Then, the projector automatically sends that error message to the control PC. The control PC can be programmed to send error messages via email to a predetermined list, informing the appropriate parties that maintenance is required. Error messages can be sent to servicers who perform on-site maintenance, so that the projector can be serviced before their customer is even aware of a problem.

Using the Advanced Presentation Software, the projector can be "daisy chained" to up to 250 XG-V10WUs - saving yards of wasted cable, space and cost. Using the RS-232C or RS-422 connections, a PC can control the entire group of projectors by only connecting to one projector in the daisy-chain - removing the need for each to be individually connected to an RS-232 or RS-422 controller.

This software gives users a complete control/monitoring center. For example, a set of projectors can be configured to stack or used in video wall applications. Two stacked XG-V10WUs have an extraordinary output of 9400 ANSI lumens. In video wall applications, the group of projectors can be daisy chained together and the software assigns each projector a picture segment, removing the need for a picture division processor.

Thus, the RS-232C network allows multiple devices to communicate with any other device or devices connected to the network. Therefore, Miyashita teaches the newly added limitation of network communication means.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyashita, U.S. Patent No. 5,782,548.

Claim 1:

Miyashita teaches an electronic presentation system (see figure 4) comprising: network communication means (*serial transmission line 50 is a RS-232C network communication line which is a network communication means equivalent to that described by applicants specification because RS-232C allows multiple devices to communicate with any other device or devices connected to the network*); a first image and voice display means (*projector 10*) connected to said communication means in which display control and communication control through said communication means are controlled by remote control means (*column 9 lines 9-34, remote controller 20 controls the computer's presentation by transmitting signals to the projector 10 which transfers those signals to the computer via serial transmission line 50*); and a personal computer provided with a second image (*display 44*) and voice (*inherently Miyashita includes voice display means since the computer is displaying a presentation having both visual and audio*) display means connected to said communication means (*indirectly display 44 is connected to serial transmission line 50*) and different from said first image and voice display means placed in a position different from the position placing said first image and voice display means (*the location of the computer's display means is different than the location of the projector's display means since the projector and computer are physically separate devices*), and input means (*remote controller 20*

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*is located at a position different from the computer's display means and the projector's display means);*

wherein said remote control means selects the display contents displayed on said second image and voice display means to display said selected display contents on said first image and voice display means at the same time (*column 10 lines 55-58*).

Claim 2:

Miyashita teaches the electronic presentation system according to claim 1, wherein said remote control means comprises a remote control transmitter (*see figure 5, infrared light emitting means 36 transmits signals*) sending a sending signal of a code corresponding to a depressed button (*column 9 lines 22-31*) and means for converting said sending signal of said remote control transmitter to a communication signal of said communication means (*signal processor 60, computation control means 62 and I/O interface 66 converts the infrared signal into a signal compatible with serial transmission line 50*) and sending the communication signal (*via interface 66*); wherein said personal computer comprises means for converting said sending signal of said remote control transmitter sent through said communication means to a signal (*I/O interface 72*) equivalent to the output signal of the input means (*I/O interface 74 generates signals from input means 46 and 48 equivalent to the signals generated by I/O interface 72, see column 9 lines 66-67 and column 10 lines 1-5*) provided in said personal computer, means for selecting the previously created display contents displayed on said second image and voice display means (*the user is enabled to select an image on the computer*

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*display 44 for display by projector 10 such as provided by the page advance button, column 11 line 5), by said converted signal equivalent to the output signal of said input means (column 10 lines 1-5), and means for converting a display signal of said selected display contents displayed on said second image and voice display means to a communication signal of said communication means at the same time and sending the communication signal (I/O interface 72 transmits the display signal corresponding to the selected display contents) to the projector; wherein said remote control means further comprises means (such as the buttons described at column 11 lines 4-6) for sending the display signal of said second image and voice display means sent through said communication means to said first image and voice display means.*

## Claim 3:

Miyashita teaches the electronic presentation system according to claim 2, wherein the selection of the previously created display contents displayed on said second image and voice display means, done by the signal equivalent to said converted output signal of said input means is executed by basic software (*bios is in all computers as well as operating system 100, column 9 lines 61-67*) installed in said personal computer (*personal computer 40*) and application software (*application software 120, column 9 lines 61-67*) operated under said basic software and used to previously create said display contents.

## Claim 4:

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Miyashita teaches the electronic presentation system according to claim 2, wherein said communication means is a wired communication system (*the serial transmission line 50 is described as RS-232, column 8 lines 10-13, which is typically a wired communication system*) .

Claim 5:

Miyashita teaches the electronic presentation system according to claim 2, wherein said communication means is a wireless communication system (*the serial transmission line 50 is described as RS-232, column 8 lines 10-13, which is typically a wired communication system, however, wireless RS-232 is known and used in wireless communications systems*).

Newly added claim 6:

The PC is remotely connected to the projector, thus, second image and voice display means is remotely connected to the first image and voice display means.

Newly added claim 7:

This claim is a device claim version of means plus function claim 1 and is rejected for the reasons given for claim 1.



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Newly added claim 8:

This claim is a device claim version of means plus function claim 6 and is rejected for the reasons given for claim 6.

Newly added claim 9:

This claim is a device claim version of means plus function claim 2 and is rejected for the reasons given for claim 2.

Newly added claim 10:

This claim is a device claim version of means plus function claim 3 and is rejected for the reasons given for claim 3.

Newly added claim 11:

This claim is a device claim version of means plus function claim 4 and is rejected for the reasons given for claim 4.

Newly added claim 12:

This claim is a device claim version of means plus function claim 5 and is rejected for the reasons given for claim 5.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

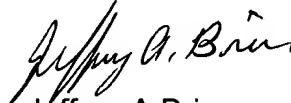
**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Jeffery A Brier  
Primary Examiner  
Art Unit 2672


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## PRESS RELEASE

### Sharp Redefines the High-end Conference Room LCD Projector

*New XG-V10WU Boasts Advanced Feature Set, 4700 ANSI Lumens And*

ANAHEIM, Calif., June 15, 2000 - Sharp Electronics Corp. today introduced its latest LCD innovation - the XG-V10WU Conference Series projector - at INFOCOMM 2000. Designed with distinctive features, the XG-V10WU is ideal for large conference rooms, lecture halls and custom professional installations, boasting an amazing 4700 ANSI lumens.

Providing unmatched flexibility, the XG-V10WU offers a wide range of features designed specifically for the high-end professional/installation market. The SXGA-native LCD projector provides industry-leading compatibility and advanced video processing that improves picture quality. Unlike other projectors on the market, the XG-V10WU comes with a unique and robust software application package that enables users to monitor and control the device remotely, and offers simple network and video wall capability.

"With the announcement of the XG-V10WU, Sharp is making a strong commitment to the high-end projector market," said John Givelis, installation projector product manager for Sharp's Professional LCD Products Division. "With its features, applications and high-performance, this new projector is not only giving our dealers the best quality and flexibility available in its class, Sharp is also providing them with the functionality they are seeking at a price no other manufacturer can meet."

#### Remote Access and Control Software

The XG-V10WU comes with the Professional Edition of the Sharp Advanced Presentation Software, which allows the projector or group of projectors to be connected to a PC for remote diagnostics, control and stacking/video wall capability.

With this software, the XG-V10WU has the ability to self-diagnose and locate/detect any system errors that may occur. Then, the projector automatically sends that error message to the control PC. The control PC can be programmed to send error messages via email to a predetermined list, informing the appropriate parties that maintenance is required. Error messages can be sent to servicers who perform on-site maintenance, so that the projector can be serviced before their customer is even aware of a problem.

Using the Advanced Presentation Software, the projector can be "daisy chained" to up to 250 XG-V10WUs - saving yards of wasted cable, space and cost. Using the RS-232C or RS-422 connections, a PC can control the entire group of projectors by only connecting to one projector in the daisy-chain - removing the need for each to be individually connected to an RS-232 or RS-422 controller.

This software gives users a complete control/monitoring center. For example, a set of projectors can be configured to stack or used in video wall applications. Two stacked XG-V10WUs have an extraordinary output of 9400 ANSI lumens. In video wall applications, the group of projectors can be daisy chained together and the software assigns each projector a picture segment, removing the need for a picture division processor.



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### Ultra-High Brightness

Powered by three 1.8-inch LCD panels and two UHP lamps, the XG-V10WU delivers a brightness of 4700 ANSI lumens. The XG-V10WU is designed to operate with one, two or alternating lamps (for extended lamp life) - making it ideal for network control centers that need a projector that is always on. The Maximum Output Light Prism ensures that the light output remains uniform in all lamp configurations.

### Industry-Leading SXGA Image Quality

Featuring Sharp's Advanced Compatibility, the XG-V10WU can handle a wide variety of signals including, workstations, PC resolutions up to UXGA (1600 x 1200, Macintosh, DTV (480i/480p/720p/1080i) and video (NTSC/PAL/PAL-M/PAL-N/SECAM). To ensure optimum image output from these sources and the highest performance, Sharp has taken many precautions during the manufacturing of these projectors. To prevent panel bending that can lead to a dispersed light output, the LCD panels are manufactured with on-chip spacers. In addition, Sharp uses a 3-D image uniformity process on each projector during production to ensure that all have a uniform output.

Another benefit, Sharp's new ImageACE Plus processing chip resizes, smooths and scales images from different sources. This chip uses advanced techniques to remove jagged and blurred lines that can result from video and enlarged/compressed images.

The XG-V10WU offers six lenses enabling the projector to easily meet the demands of any installation - from a rear-projection lens for a conference room to a long-throw lens for an auditorium.

### PresenterPAK(TM)

The XG-V10WU comes equipped with Sharp's PresenterPAK that gives presenters a versatile projector with an easy and quick setup, simple image adjustment and enhanced presentation options.

Offering easy operation for even the first-time user, Sharp's exclusive PresenterPAK features a friendly graphical user interface (GUI) menu screen that is icon-based, color coded and uses common terminology rather than technical jargon.

A number of image-adjustment features, both automatic and manual, allow a presenter to tune the image to ensure the best-looking presentations. Sharp's autoSYNC automatically adjusts computer images without having to access the projector's menu system. One-touch gamma correction can adjust the color shifts that arise from using different image sources during a presentation with the press of a button. Sharp's unique motorized lens shift minimizes 'keystoning' in critical installations, making this projector adaptable to sophisticated conference room or auditorium settings.

Because the PresenterPAK has built many presentation tools into the projector, users have a variety of options to enhance presentations. This package also enables presenters to customize the projector to display their company's logo during startup, as well as manipulate images during presentations with enlargement and freeze capabilities.

### Multiple Inputs and Control Options

The XG-V10WU boasts up to six inputs including two RGB inputs, one digital video interface (DVI), and two video inputs capable of displaying composite, S-video or component video. The XG-V10WU also offers video over data picture-in-picture

capability for use in video conferencing applications. The XG-V10WU's expansion port allows a Serial Digital Interface (SDI) board to be added for input from standard broadcast signals.

The XG-V10WU's expansion board also offers additional options for advanced control inputs. The RS-422 expansion board allows projectors to be connected up to 3,900 feet away and the LAN expansion board offers a simple 10BaseT connection for linking projectors across a network.

The XG-V10WU will be available in the third quarter 2000 through Sharp's authorized dealer network at a list price of \$29,995, plus the cost of the lens. Lenses range in price from \$2,999 to \$9,399.

Sharp offers a full line of projectors, monitors and professional video equipment for purchase, lease or rental through its national network of authorized dealers.

For more information please contact Sharp Electronics Corporation, Professional LCD Products Division, Sharp Plaza, Mahwah, NJ 07430-2135, or dial 1-888-GO-SHARP (1-888-467-4277); Fax: 201- 529-9636; or Faxback for product information: 201-512-2380. For on-line product information, visit Sharp's LCD Products Group Web page at [www.SharpLCD.com](http://www.SharpLCD.com). Email: [ProLCD@SharpSEC.com](mailto:ProLCD@SharpSEC.com).

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